§ 25.1393

Dihedral angle (light in- cluded)	Angle from right or left of longitu- dinal axis, meas- ured from dead ahead	Intensity (candles)
L and R (forward red and	0° to 10°	40
green).	10° to 20°	30
	20° to 110°	5
A (rear white)	110° to 180°	20

§25.1393 Minimum intensities in any vertical plane of forward and rear position lights.

Each position light intensity must equal or exceed the applicable values in the following table:

Angle above or below the horizontal plane	Intensity, I
0°	1.00
0° to 5°	0.90
5° to 10°	0.80
10° to 15°	0.70
15° to 20°	0.50
20° to 30°	0.30
30° to 40°	0.10
40° to 90°	0.05

§ 25.1395 Maximum intensities in overlapping beams of forward and rear position lights.

No position light intensity may exceed the applicable values in the following table, except as provided in §25.1389(b)(3).

	Maximum intensity	
Overlaps	Area A (candles)	Area B (candles)
Green in dihedral angle L	10 10 5 5 5	1 1 1 1 1 1

Where-

(a) Area A includes all directions in the adjacent dihedral angle that pass through the light source and intersect the common boundary plane at more than 10 degrees but less than 20 degrees; and

(b) Area B includes all directions in the adjacent dihedral angle that pass through the light source and intersect the common boundary plane at more than 20 degrees.

§25.1397 Color specifications.

Each position light color must have the applicable International Commission on Illumination chromaticity coordinates as follows:

(a) Aviation red—

y is not greater than 0.335; and z is not greater than 0.002.

(b) Aviation green—

x is not greater than 0.440-0.320y; x is not greater than y-0.170; and y is not less than 0.390-0.170x.

(c) Aviation white—

x is not less than 0.300 and not greater than 0.540:

y is not less than x-0.040; or $y_0-0.010$, whichever is the smaller; and

y is not greater than x+0.020 nor 0.636-0.400x; Where y_0 is the y coordinate of the Planckian radiator for the value of x considered

[Doc. No. 5066, 29 FR 18291, Dec. 24, 1964, as amended by Amdt. 25–27, 36 FR 12972, July 10, 1971]

§25.1399 Riding light.

- (a) Each riding (anchor) light required for a seaplane or amphibian must be installed so that it can—
- (1) Show a white light for at least 2 nautical miles at night under clear atmospheric conditions; and
- (2) Show the maximum unbroken light practicable when the airplane is moored or drifting on the water.
- (b) Externally hung lights may be

§25.1401 Anticollision light system.

- (a) General. The airplane must have an anticollision light system that—
- (1) Consists of one or more approved anticollision lights located so that their light will not impair the crew's vision or detract from the conspicuity of the position lights; and
- (2) Meets the requirements of paragraphs (b) through (f) of this section.
- (b) Field of coverage. The system must consist of enough lights to illuminate the vital areas around the airplane considering the physical configuration and flight characteristics of the airplane. The field of coverage must extend in each direction within at least 75 degrees above and 75 degrees below the horizontal plane of the airplane, except that a solid angle or angles of obstructed visibility totaling not more than 0.03 steradians is allowable within a solid angle equal to 0.15 steradians